



# EPA Puget Sound Financial and Ecosystem Accounting Tracking System (FEATS) v. September 2012 for Lead Organization Subawardees

*Photo by Rebecca Pirtle, Editor, Kingston Community News (Doe-Kag-Wats Estuary of the Suquamish Tribe)*

## PROJECT INFORMATION

<b>1. Federal Grant Number</b>	PA-00J912-01	<b>*2a. Reporting Period Start Date:</b>	10/1/2017	<b>*2b. Reporting Period End Date:</b>	3/31/2018
<b>3. Subaward Organization (Name and complete address including zip code)</b> Name: Tulalip Tribe Address 1: 6404 Marine Drive Address 2: City: Tulalip State: WA Zip Code: 98271-			<b>4. Subaward Project Manager Contact Information</b> Name: Todd Zackey Phone: (360) 716-4637 Ext: Fax: ( ) - Email: tzackey@tulaliptribes-nsn.gov,		
<b>5a. EPA Program</b>  <b>LO - Tribal</b>	<b>5b. Subaward Project Title and Contract No.</b>  FY 2014 Noncompetitive Tribal Projects for Restoration and Protection of Puget Sound / 15 EPA PSP440		<b>*6. Collaborating Organizations/Partners</b>		

<p><b><u>Subawardee Submission Instructions:</u></b></p> <p>LO fills in the white boxes. Subawardee fills in the yellow boxes (boxes with asterisks). Refer to guidance document for how to fill out the boxes. After filling out the yellow boxes, save and e-mail it to your LO Project Manager for approval. LO will roll up the information and submit to EPA for approval.</p>	<p><b>LO Project Manager:</b> Dani Madrone  <b>LO:</b> Northwest Indian Fisheries Commission  <b>Phone:</b> 360.528.4318  <b>email:</b> dmadrone@nwifc.org</p> <p><b>LO Program Coordinator:</b>  <b>LO:</b>  <b>Phone:</b>  <b>email:</b></p> <p><b>EPA Project Officer:</b> Lisa Chang</p>	<b>*7a. Name/Title of Person Submitting Report</b>	Todd Zackey Marine Program Manager
		<b>*7b. Date Report Submitted</b>	4/30/2018

## FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	\$112,200.00	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2015 ----- ----- -----	*9. Amount Spent To-Date:	\$112,200.00	*10. Amount Reimbursed To-Date:	\$112,200.00
11. Match Amount Required	\$0.00	*12. Total Match Amount Spent and Documented To-Date:		*13. Have you experienced any cost overruns or high unit costs?			
*14. What issues or questions do you need the LO Project Manager to respond to?							

## BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
Personnel	\$22,905.00		\$22,905.00	\$24,453.83		\$24,453.83
Fringe Benefits	\$5,606.00		\$5,606.00	\$6,127.76		\$6,127.76
Travel	\$2,000.00		\$2,000.00	\$0.00		\$ 0.00
Equipment	\$5,516.00		\$5,516.00	\$3,850.00		\$3,850.00
Supplies	\$15,370.00		\$15,370.00	\$11,506.52		\$11,506.52
Contracts	\$51,638.00		\$51,638.00	\$56,189.00		\$56,189.00
Other	\$0.00		\$ 0.00			\$ 0.00
<b>TOTAL DIRECT CHARGES</b>	<b>\$103,034.00</b>		<b>\$103,034.00</b>	<b>\$101,611.70</b>		<b>\$101,611.70</b>
Indirect Charges	\$9,165.00		\$9,165.00	\$10,072.89		\$10,072.89
<b>TOTAL</b>	<b>\$112,200.00</b>		<b>\$112,200.00</b>	<b>\$112,200.00</b>		<b>\$112,200.00</b>
*Explain Any Discrepancies:	Personnel cost were slightly higher than anticipated due to recent increases in staff salaries, Fringe rates were slightly higher than anticipated due to increases in health insurance costs. Contracts were higher than anticipates due more work needing to be done to get the field sampling database operational, and the Tribes indirect rate increased between 2016 and 2017. Supply and equipment cost were lower than anticipated and used to balance					

	overruns in other line item areas. Changes to balance the line item budgets were less than 10% of the total budget.
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**ECOSYSTEM GOALS ADDRESSED**

<b>16a. Primary Goal</b>	Healthy Habitat
<b>16b. Additional Goals</b>	Healthy Species    Water Quality    Water Quantity    -----    -----    -----

**DIRECT THREATS ADDRESSED**

<b>17a. Primary Threat</b>	-----
<b>17b. Secondary Threat(s)</b>	-----    -----    -----

**LINKAGES TO PUGET SOUND ACTION AGENDA (Version Adopted August 2012)**

<b>18a. Primary Strategic Initiative</b>	Tribal Habitat Priorities
<b>18b. Sub-Strategies Employed</b>	A.1.1    A.1.2    A.6.1    A.6.3    A.6.4    B.2.2    B.5.3    D.4.2    D.4.1.1    A.7.1
<b>18c. Near-Term Actions Supported</b>	

**LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES**

<b>19. Measure(s)</b>	Habitat Restored/Protected    -----    -----
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**LINKAGES TO PUGET SOUND DASHBOARD INDICATORS**

<b>20a. Primary Indicator</b>	Estuaries
<b>20b. Secondary Indicators</b>	Wild Chinook Salmon    Floodplains    Freshwater Quality    Stream Flows

**PROJECT LOCATION**

<b>21a. Latitude</b>	48°01'N	<b>21b. Longitude</b>	122°09"W
<b>21c. Hydrologic Unit Code</b>	17110011 - Snohomish	-----	-----
<b>21d. Action Area</b>	Whidbey	-----	-----

## MEASURES OF SUCCESS (Key Outputs)

*22a. Description (e.g., “shellfish beds reopened”)	*22b. Unit (e.g., “acres”)	*22c. Project Target (“number”)	*22d. Project Measure To-Date (“number”)

## PROJECT MILESTONES

**Instructions:** In the tables below, please explain your progress toward meeting agreed outputs for the period, **reasons for slippages**, and any additional information including **reflections, lessons learned, and/or thoughtful analysis**. When appropriate, include analysis and information of **cost overruns or high unit costs**, and changes to work plan or budget not requiring prior approval from EPA. We encourage photo documentation - please attach to the report as a separate document.

<b>23a. Subaward Work Plan Component/Task:</b> Monitoring ecosystem response to restoration and climate change in the Snohomish River estuary					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b>					
<b>*23c. Estimated Costs:</b>					
<b>Actual Costs to Date:</b>					
<b>(If required to report – contact your Project Manager)</b>					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
1.1	Engage in project management including, project reporting, grant budget management, and assuring all grant requirements are met. The Principle Investigator (PI) will be responsible for managing and coordinating the subcontract, the monitoring effort, ensuring QA/QC	4/30/18	COMPLETED	Reporting on project updates, budgets, and task accomplishment; FEATS reports and updates	Final FEATS Report for 10/1/2017 to 3/31/2018 completed

	procedures are met, and the final project report.				
1.2	Develop QAPP Addendum	4/30/17	CANCELLED	Continued development of a monitoring plan for the Snohomish Estuary; EPA approved QAPP	Due to the fact that we removed the NOAA subcontract and we decided to continue with the existing monitoring sampling methods in the 2013 QAPP for this work
1.3	Conduct outreach and planning in order to conduct effective and relevant monitoring efforts, fill data gaps, implement adaptive management in light of changing climatic conditions, and seek further support to continue the necessary monitoring needs of the Snohomish estuary.	4/30/17	COMPLETED	Expanded and formalized collaboration on monitoring across restoration projects and throughout the rest of the estuary; Estuary Working Group workshops on monitoring results, strategies and collaborative opportunities.	The Tulalip Tribes, NOAA NWFSC, and Snohomish County have been working with the WDFW to develop a story map and white paper on the status of the Snohomish estuary. Work is still underway on this effort. The city of Marysville has joined into our collaborative monitoring effort specifically for the Qwuloolt site and the Snohomish Estuary group has provided the City with data and analysis for their own reports.
1.4	Engage in data collection to assess the current conditions across the Snohomish Estuary system and long-term monitoring sites to track long-term changes in the estuary. The biological, physical, and water chemistry changes at the Qwuloolt estuary restoration project and long-term monitoring sites will be assessed to track long-term changes in the estuary. Across the estuary, biological data will be collected for fish assemblages residing in the estuary. Tulalip staff & the Tulalip Wildlife Program will be conducting the bird surveys.	4/30/17	COMPLETED	2016 system-wide fish sampling data file (assemblage composition, abundance, distribution), 2016 bird surveys of the Qwuloolt restoration site & reference sites	The Tulalip Tribes, NOAA NWFSC, and Snohomish County had met in January of 2017 to coordinate monitoring efforts for the 2017 monitoring season. on February 1st monitoring began in the estuary. All 2016 fish data has been entered into a database and QA/QCd. Bird surveys were conducted in the summer of 2016 and resumed in the winter of 2017. Vegetation mapping of the Qwuloolt restoration site was completed in the fall of 2016. All data collection under this task has been completed.
1.5	Report on conditions and trends of Snohomish Estuary habitats and restoration projects, with analysis and write-up primarily focused on Snohomish Estuary fish monitoring	3/31/2018	CANCELLED	Completion of Snohomish Estuary monitoring plan and results	The grant funding has been fully expended and due to staffing shortages we have been delayed in finishing this report. As a solution we are incorporating the data and timeframe covered by this funding into the FY2017 grant report which will cover data from

					2009 to 2017. This also makes sense when reporting fish data since it will incorporate multiple years of fish data which can be highly variable from year to year. This report will be provided by the end of August 2018.
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**23a. Subaward Work Plan Component/Task:** Monitoring water resources on the Tulalip Reservation

**23b. 2012 Action Agenda Near-Term Action(s) Supported:**

**\*23c. Estimated Costs:**  
**Actual Costs to Date:**  
**(If required to report – contact your Project Manager)**

23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
2.1	Engage in project management, including project reporting, grant budget management, and assuring all grant requirements are met	4/30/17	COMPLETED	Reporting on project updates, budgets, and task accomplishment	This is the 3rd FEATS report for this grant and the final one for this task.
2.2	Develop Quality Assurance Project Plan for hydrologic data collection including stream gauging methodologies and telemetry station information.	4/30/17	COMPLETED	Approved QAPP	As mentioned in the FY 2014 FEATS reporting the USGS operates and maintains their stream gauges according to their on approved QAPP and SOPs. Developing a new QAPP for this operation would be duplicative and non-binding to the USGS so we are operating under the USGS's QAPP.
2.3	Continue the USGS subcontract to operate the five stream gages located on three main streams on the Tulalip Reservation: Tulalip Creek (EF, WF, and mainstem), Mission (Battle) Creek (mainstem), and Coho Creek (mainstem)/Quil Ceda Creek. Use these gage data to preserve, maintain, and archive critical baseline surface water flow data on the	4/30/17	COMPLETED	Continuous, precise, quantifiable records of maximum, minimum, and mean daily discharge available by telemetry from the five stream gages and made readily available using standard USGS protocols (e.g. real-time flow conditions). Gauging data uploaded to STORET	After consulting with NWIFC and EPA we are not required to upload the stream gauge data to STORET since the data is already managed by the USGS and is easily accessible and viewable via the USGS's National Water Information System: Web Interface at <a href="https://waterdata.usgs.gov/WA/nwis/current/?type=flow">https://waterdata.usgs.gov/WA/nwis/current/?type=flow</a>

	Tulalip Reservation for the management and preservation of adequate water supplies that meet the needs of fish, wildlife, plants and their habitats on the Tulalip Reservation.				
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**23a. Subaward Work Plan Component/Task:** Evaluating the use of beaver relocation as an ecosystem tool in headwater streams of the Snohomish River Basin

**23b. 2012 Action Agenda Near-Term Action(s) Supported:**

**\*23c. Estimated Costs:**  
**Actual Costs to Date:**  
**(If required to report – contact your Project Manager)**

23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
3.1	Coordinate with landowners in Snohomish county lowlands in acquisition of captured beavers. Initiate trapping and holding in May. Release beaver families at select sites in the Snohomish Watershed from June-October.	4/30/17	COMPLETED	Updated beaver holding facility. Release of families or pairs of beavers at six sites. Increased water retention at successful beaver relocation sites. Beaver relocation report summarizing findings from relocation efforts	We are operating under the existing QAPP approved in 2013. Outreach to landowners and relocation of beaver has been completed.
3.2	Monitor success of beaver colonies at release sites using mark/recapture (ear tags, game cameras) and GPS transmitters. Attach 1-5 GPS transmitters to adult beavers at the holding facility. Track the movement of tagged, relocated beavers.	4/30/18	COMPLETED	Deployment of GPS transmitters to captured beavers and the monitoring of these animals using these devices. Transmitter attachment and monitoring report discussing transmitter attachment methods and survival and movement monitoring of relocated beavers carrying these devices	Pre and post relocation monitoring of beaver sites was conducted and one GPS unit was successfully deployed on an adult female beaver. GPS data was collected for one month post relocation. Higher rate of retention was observed in the 2017 relocation period.

3.3	Management of contracts, budget, and FEATS reporting	4/30/18	COMPLETED	FEATS Reporting and project management	This is the fourth FEATS report for this grant
3.4	Present findings to professionals at the annual Washington Wildlife Society meetings	4/30/17	COMPLETED	Presentation to the Washington Chapter of the Wildlife Society describing the findings of the project to date	Findings were presented at the 2016 Wildlife Society Meeting in Coeur D'alene.

### CHALLENGES AND SOLUTIONS (specific to reporting period)

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
1.2		
1.3		
1.5	We are still working to catch up on this task form the loss of the lead NOAA person for this task further complicated by the another key NOAA staff leaving NOAA for a position elsewhere	The grant funding has been fully expended and due to staffing shortages we have been delayed in finishing this report. As a solution we are incorporating the data and timeframe covered by this funding into the FY2017 grant report which will cover data from 2009 to 2017. This also makes sense when reporting fish data since it will incorporate multiple years of fish data which can be highly varialble from year to year. This report will be provided by the end of August 2018.
2.3		
3	.	

### HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

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